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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/802,128	03/08/2001	Dale E. Wright	2479.2049-000	5572
21005	7590 12/02/2004		EXAMINER	
	I, BROOK, SMITH &	PHUNKULH, BOB A		
530 VIRGINI P.O. BOX 913	-		ART UNIT	PAPER NUMBER
CONCORD, MA 01742-9133			2661	

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Community		- 09/802,128	WRIGHT ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Bob A. Phunkulh	2661			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply opened for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 08 Ma	arch 2001.				
	is action is FINAL . 2b)⊠ This action is non-final.					
3)□	,—					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-10</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-7,9 and 10</u> is/are rejected. Claim(s) <u>8</u> is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers	·				
9)[The specification is objected to by the Examiner					
10)⊠ The drawing(s) filed on <u>06 July 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Example 1.					
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmeni	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) 🔯 Infom	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 9/24/2003.	Paper No(s)/Mail Da				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, 9-10 are rejected under 35 U.S.C. 102(b) as being anticipated by *Averbuch* et al. (US 5530693), hereinafter *Averbuch*.

Regarding claim 1, *Averbuch* discloses for use in a data communication network including a wireless link for the transfer of data packets from a first machine to a second machine, the wireless link having a multitude of base stations which may be selectively designated to receive data packets from the first machine and a subscriber unit connected to the second machine for receiving data packets from a selectable one of the base stations, a method of maintaining data throughput during a handoff from a first one of the base stations to a second one of the base stations as requested by the subscriber unit, which comprises the steps of:

uniquely designating only the first and second base stations for simultaneous receipt of the data packets from the first machine in response to the handoff request (receiving and store data packet at serving site and neighboring base sites, see step 403 of figure 4);

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storing the data packets received by the second base station after such handoff request but before handoff is executed (receiving and store data packet at serving site and neighboring base sites, see step 403 of figure 4); and

forwarding a selected subset of the stored data packets to the subscriber unit after handoff is executed (see col. 8 lines 1-14).

Regarding claim 2, *Averbuch* inherently discloses discontinuing the designation of the first base station to receive data packets from the first machine after handoff is executed (when the handoff is completed the original serving site will no longer receives the data packets, see col. 8 lines 1-14 and figure 4).

Regarding claim 3, *Averbuch* discloses the data communications network is adapted to operate with the Mobile IP protocol, and in which the designating step comprises registering the first and second base stations as simultaneous Mobile IP bindings for the subscriber unit (see col. 3 lines 46-54).

Regarding claim 4, *Averbuch* discloses for use in a wireless communication link adapted to operate in accordance with the Mobile IP protocol and comprising, in combination, a subscriber unit constituting a Mobile IP mobile node (communication unit 109, see figure 2), a Mobile IP home agent associated with the mobile node's home network, and first and second base stations respectively associated with first and second Mobile IP foreign agents through which data packets may be selectively routed

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from the home agent, the first foreign agent being initially registered with the home agent as a first mobility binding between the subscriber unit and the home agent, the subscriber unit receiving such data packets from a selected one of the first and second base stations, a method for maintaining data throughput during a handoff of the subscriber unit from the first base station to the second base station as requested by the subscriber unit, which comprises the steps of:

registering the second foreign agent as a second mobility binding between the subscriber unit and the home agent in response to the handoff request, the second mobility binding constituting a simultaneous binding with the first mobility binding to allow receipt of the data packets from the home agent by both the first and second foreign agents (one of the neighboring base site function as the second foreign agent, step 403 in figure 4; and step 503 in figure 5);

storing a sequence of data packets received by the second foreign agent from the home agent after such simultaneous binding registration but before handoff is executed (step 403 in figure 4; and step 503 in figure 5); and

forwarding the stored data packets to the subscriber unit via the second base station starting with a predetermined data packet in the stored sequence after handoff is executed (transmit second portion of packet to communication unit from target base site, see step 417, see figure 4).

Regarding claim 5, *Averbuch* discloses prior to the registration step for the second mobility binding, of transmitting a request from the subscriber unit to the home

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agent to register the second foreign agent as the second mobility binding (see col. 4 lines 1-16).

Regarding claim 6, *Averbuch* inherently discloses the step of deregistering the mobility binding of the first foreign agent with the home agent after handoff is executed (when the handoff is completed the original serving site will no longer receives the data packets, see col. 8 lines 1-14 and figure 4).

Regarding claim 7, *Averbuch* discloses means associated with the subscriber unit for generating a handoff complete signal after handoff is executed, and means for applying the handoff complete signal to the first and second base stations (acknowledgement message, see step 413 figure 4).

Regarding claim 9, *Averbuch* discloses a wireless communication link adapted to operate in accordance with the Mobile IP protocol, the link having a mobile subscriber unit constituting a Mobile IP mobile node and in selective radio communication with first and second base stations for receiving data packets therefrom, the subscriber unit being adapted to generate a handoff request signal (mobile-assisted handoff (MAHO)), a handoff start signal and a handoff complete signal in connection with a handoff of the subscriber unit from the first base station to the second base station:

a Mobile IP home agent associated with the mobile node's home network;

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first and second Mobile IP foreign agents respectively associated with the first and second base stations and through which data packets may be selectively routed from the home agent, the first foreign agent being registered before the handoff with the home agent as a first mobility binding between the subscriber unit and the home agent (see figure 1 and figure 4);

means responsive to the handoff request signal for registering the second foreign agent as a second mobility binding between the subscriber unit and the home agent, the second mobility binding constituting a simultaneous binding with the first mobility binding to allow receipt of the data packets from the home agent by both the first and second foreign agents (receive and store data packet at serving base site and neighboring base sites see step 403 of figure 4; and step 503 of figure 5);

means responsive to the handoff start signal for storing a sequence of data packets received by the second foreign agent from the home agent after such simultaneous binding registration (receive and store data packet at serving base site and neighboring base sites, see step 403 figure 4 and step 503 of figure 5); and

first means responsive to the handoff complete signal for forwarding the stored data packets to the subscriber unit via the second base station starting with a predetermined data packet in the stored sequence (transmit second portion of packet to the communication unit from target base site, see step 417 of figure 4).

Regarding claim 10, *Averbuch* discloses second means responsive to the handoff complete signal for de-registering the mobility binding of the first foreign agent

with the home agent (when the handoff is completed the original serving site will no longer receive the data packets, see col. 8 lines 1-14 and figure 4).

Allowable Subject Matter

Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any response to this action should be mailed to:

The following address mail to be delivered by the United States Postal Service (USPS) only:

Mail Stop Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

or faxed to:

(703) 872-9306, (for formal communications intended for entry)

Or:

The following address mail to be delivered by other delivery services (Federal Express (Fed Ex), UPS, DHL, Laser, Action, Purolater, Hand Delivery, etc.) as follow:

U.S. Patent and Trademark Office 220 20th Street South Customer Window, Mail Stop Crystal Plaza Two, Lobby, Room 1B03 Arlington, VA 22202.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Bob A. Phunkulh** whose telephone number is **(571) 272-3083.** The examiner can normally be reached on Monday-Tursday from 8:00 A.M. to 5:00 P.M. (first week of the bi-week) and Monday-Friday (for second week of the bi-week).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's acting supervisor **Kenneth Vanderpuye**, can be reach on (571) 272-3078. The fax phone number for this group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bob A. Phunkulh

BOB PHUNKULH PRIMARY EXAMINER

TC 2600

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November 22, 2004